

| L Number | Hits | Search Text | DB | Time stamp |
|----------|--------|--|-----------------|------------------|
| - | 4 | ("5354381") or ("6020592") or ("6182604") or ("5711812").PN. | USPAT | 2003/10/30 15:57 |
| - | 744743 | h011021\$.ipc. c23c016.ipc. | JPO; DERWENT | 2003/10/30 10:49 |
| - | 57394 | (h011021\$.ipc. c23c016.ipc.) and ((ion with (implant\$5 plat\$5)) dop\$3) | JPO; DERWENT | 2003/10/30 12:26 |
| - | 18681 | ((h011021\$.ipc. c23c016.ipc.) and ((ion with (implant\$5 plat\$5)) dop\$3)) and (electrode anode cathode) | JPO; DERWENT | 2003/10/30 10:55 |
| - | 241 | ((h011021\$.ipc. c23c016.ipc.) and ((ion with (implant\$5 plat\$5)) dop\$3)) and (electrode anode cathode) and (puls\$5 modulat\$3 intermittent\$2) | JPO; DERWENT | 2003/10/30 12:27 |
| - | 4 | ((h011021\$.ipc. c23c016.ipc.) and ((ion with (implant\$5 plat\$5)) dop\$3)) and (electrode anode cathode) and (puls\$5 modulat\$3 intermittent\$2)) and (rotat\$3 revolv\$3 revolution spin\$4) | JPO; DERWENT | 2003/10/30 12:28 |
| - | 135545 | (h011021\$.ipc. c23c016.ipc.) and (electrode anode cathode) | JPO; DERWENT | 2003/10/30 10:55 |
| - | 2013 | ((h011021\$.ipc. c23c016.ipc.) and (electrode anode cathode)) and (puls\$5 modulat\$3 intermittent\$2) | JPO; DERWENT | 2003/10/30 10:55 |
| - | 66 | ((h011021\$.ipc. c23c016.ipc.) and (electrode anode cathode)) and (puls\$5 modulat\$3 intermittent\$2)) and (rotat\$3 revolv\$3 revolution spin\$4) | JPO; DERWENT | 2003/10/30 10:55 |
| - | 62 | ((h011021\$.ipc. c23c016.ipc.) and (electrode anode cathode)) and (puls\$5 modulat\$3 intermittent\$2)) and (rotat\$3 revolv\$3 revolution spin\$4)) not (((h011021\$.ipc. c23c016.ipc.) and ((ion with (implant\$5 plat\$5)) dop\$3)) and (electrode anode cathode)) and (puls\$5 modulat\$3 intermittent\$2)) and (rotat\$3 revolv\$3 revolution spin\$4)) | JPO; DERWENT | 2003/10/30 11:05 |
| - | 237 | ((h011021\$.ipc. c23c016.ipc.) and ((ion with (implant\$5 plat\$5)) dop\$3)) and (electrode anode cathode)) and (puls\$5 modulat\$3 intermittent\$2)) not (((h011021\$.ipc. c23c016.ipc.) and (electrode anode cathode)) and (puls\$5 modulat\$3 intermittent\$2)) and (rotat\$3 revolv\$3 revolution spin\$4)) | JPO; DERWENT | 2003/10/30 12:18 |
| - | 959 | (118/723e).CCLS. | USPAT | 2003/10/30 12:18 |
| - | 517 | ((156/345.43) or (156/345.44) or (156/345.45) or (156/345.46) or (156/345.47)).CCLS. | USPAT | 2003/10/30 12:19 |
| - | 55 | (156/345.55).CCLS. | USPAT | 2003/10/30 12:19 |
| - | 789 | (118/730).CCLS. | USPAT | 2003/10/30 12:22 |
| - | 351 | ((118/723e).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4) | USPAT | 2003/10/30 14:24 |
| - | 169 | ((156/345.43) or (156/345.44) or (156/345.45) or (156/345.46) or (156/345.47)).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4) | USPAT | 2003/10/30 12:22 |
| - | 220 | ((118/730).CCLS.) and (electrode cathode anode) | USPAT; EPO; JPO | 2003/10/30 12:27 |
| - | 21 | ((156/345.55).CCLS.) and (electrode cathode anode) | USPAT; EPO; JPO | 2003/10/30 12:23 |
| - | 149266 | ((ion with (implant\$5 plat\$5)) dop\$3) | USPAT | 2003/10/30 12:27 |
| - | 76595 | ((ion with (implant\$5 plat\$5)) dop\$3)) and (electrode cathode anode) | USPAT | 2003/10/30 13:21 |
| - | 22572 | ((ion with (implant\$5 plat\$5)) dop\$3)) and (electrode cathode anode) and (puls\$5 modulat\$3 intermittent\$2) | USPAT | 2003/10/30 13:00 |
| - | 8137 | ((ion with (implant\$5 plat\$5)) dop\$3)) and (electrode cathode anode) and (puls\$5 modulat\$3 intermittent\$2)) and (rotat\$3 revolv\$3 revolution spin\$4) | USPAT | 2003/10/30 12:56 |

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|---|--------|---|-------|------------------|
| - | 127 | (((((ion with (implant\$5 plat\$5)) dop\$3)) and (electrode cathode anode)) and (puls\$5 modulat\$3 intermittent\$2)) and (rotat\$3 revolv\$3 revolution spin\$4)) and (156/345\$.ccls. 118/723\$.ccls.) | USPAT | 2003/10/30 12:57 |
| - | 392567 | electrode cathode anode | USPAT | 2003/10/30 12:55 |
| - | 120724 | (electrode cathode anode) and (rotat\$3 revolv\$3 revolution spin\$4) | USPAT | 2003/10/30 13:21 |
| - | 1082 | ((electrode cathode anode) and (rotat\$3 revolv\$3 revolution spin\$4)) and (156/345\$.ccls. 118/723\$.ccls.) | USPAT | 2003/10/30 13:01 |
| - | 27152 | (electrode cathode anode) and ((rotat\$3 revolv\$3 revolution spin\$4) with (substrate wafer holder susceptor pedestal support stage)) | USPAT | 2003/10/30 13:00 |
| - | 52020 | ((electrode cathode anode) and (rotat\$3 revolv\$3 revolution spin\$4)) and (puls\$5 modulat\$3 intermittent\$2) | USPAT | 2003/10/30 13:01 |
| - | 258 | ((electrode cathode anode) and (rotat\$3 revolv\$3 revolution spin\$4)) and (puls\$5 modulat\$3 intermittent\$2)) and (156/345\$.ccls. 118/723\$.ccls.) | USPAT | 2003/10/30 13:13 |
| - | 10082 | ((electrode cathode anode) and ((rotat\$3 revolv\$3 revolution spin\$4) with (substrate wafer holder susceptor pedestal support stage))) and (puls\$5 modulat\$3 intermittent\$2) | USPAT | 2003/10/30 13:21 |
| - | 142 | ((((electrode cathode anode) and ((rotat\$3 revolv\$3 revolution spin\$4) with (substrate wafer holder susceptor pedestal support stage))) and (puls\$5 modulat\$3 intermittent\$2)) and (156/345\$.ccls. 118/723\$.ccls.)) | USPAT | 2003/10/30 13:01 |
| - | 67 | ((((electrode cathode anode) and ((rotat\$3 revolv\$3 revolution spin\$4) with (substrate wafer holder susceptor pedestal support stage))) and (puls\$5 modulat\$3 intermittent\$2)) and (156/345\$.ccls. 118/723\$.ccls.)) not (((((ion with (implant\$5 plat\$5)) dop\$3)) and (electrode cathode anode)) and (puls\$5 modulat\$3 intermittent\$2)) and (rotat\$3 revolv\$3 revolution spin\$4)) and (156/345\$.ccls. 118/723\$.ccls.)) | USPAT | 2003/10/30 13:13 |
| - | 116 | ((((electrode cathode anode) and (rotat\$3 revolv\$3 revolution spin\$4)) and (puls\$5 modulat\$3 intermittent\$2)) and (156/345\$.ccls. 118/723\$.ccls.)) not (((((electrode cathode anode) and ((rotat\$3 revolv\$3 revolution spin\$4) with (substrate wafer holder susceptor pedestal support stage))) and (puls\$5 modulat\$3 intermittent\$2)) and (156/345\$.ccls. 118/723\$.ccls.)) | USPAT | 2003/10/30 13:13 |
| - | 64 | ((((electrode cathode anode) and (rotat\$3 revolv\$3 revolution spin\$4)) and (puls\$5 modulat\$3 intermittent\$2)) and (156/345\$.ccls. 118/723\$.ccls.)) not (((((electrode cathode anode) and ((rotat\$3 revolv\$3 revolution spin\$4) with (substrate wafer holder susceptor pedestal support stage))) and (puls\$5 modulat\$3 intermittent\$2)) and (156/345\$.ccls. 118/723\$.ccls.))) not (((((ion with (implant\$5 plat\$5)) dop\$3)) and (electrode cathode anode)) and (puls\$5 modulat\$3 intermittent\$2)) and (rotat\$3 revolv\$3 revolution spin\$4)) and (156/345\$.ccls. 118/723\$.ccls.)) | USPAT | 2003/10/30 13:20 |
| - | 1324 | varian.as. | USPAT | 2003/10/30 13:20 |
| - | 615 | varian.as. and (rotat\$3 revolv\$3 revolution spin\$4) | USPAT | 2003/10/30 14:58 |

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|---|-----|--|-------|------------------|
| - | 252 | (varian.as. and (rotat\$3 revolv\$3 revolution spin\$4)) and (electrode cathode anode) | USPAT | 2003/10/30 13:21 |
| - | 105 | ((varian.as. and (rotat\$3 revolv\$3 revolution spin\$4)) and (electrode cathode anode)) and (puls\$5 modulat\$3 intermittent\$2) | USPAT | 2003/10/30 13:22 |
| - | 287 | ((((118/723e).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4)) not (((electrode cathode anode) and (rotat\$3 revolv\$3 revolution spin\$4)) and (puls\$5 modulat\$3 intermittent\$2)) and (156/345\$.ccls. 118/723\$.ccls.)) | USPAT | 2003/10/30 14:40 |
| - | 233 | ((((118/723e).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4)) not (((electrode cathode anode) and (rotat\$3 revolv\$3 revolution spin\$4)) and (puls\$5 modulat\$3 intermittent\$2)) and (156/345\$.ccls. 118/723\$.ccls.)) and (speed rate) | USPAT | 2003/10/30 14:24 |
| - | 98 | ((118/723e).CCLS.) and ((rotat\$3 revolv\$3 revolution spin\$4) same (speed rate)) | USPAT | 2003/10/30 14:25 |
| - | 73 | ((118/723e).CCLS.) and ((rotat\$3 revolv\$3 revolution spin\$4) with (speed rate)) | USPAT | 2003/10/30 14:47 |
| - | 97 | ((((156/345.43) or (156/345.44) or (156/345.45) or (156/345.46) or (156/345.47)).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4)) not (((118/723e).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4)) | USPAT | 2003/10/30 14:45 |
| - | 82 | (((((156/345.43) or (156/345.44) or (156/345.45) or (156/345.46) or (156/345.47)).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4)) not (((electrode cathode anode) and (rotat\$3 revolv\$3 revolution spin\$4)) and (puls\$5 modulat\$3 intermittent\$2)) and (156/345\$.ccls. 118/723\$.ccls.)) | USPAT | 2003/10/30 14:45 |
| - | 180 | ((((118/730).CCLS.) and (electrode cathode anode)) not (((118/723e).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4))) | USPAT | 2003/10/30 14:45 |
| - | 177 | ((((118/730).CCLS.) and (electrode cathode anode)) not (((118/723e).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4))) not (((156/345.43) or (156/345.44) or (156/345.45) or (156/345.46) or (156/345.47)).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4)) | USPAT | 2003/10/30 14:45 |
| - | 160 | (((((118/730).CCLS.) and (electrode cathode anode)) not (((118/723e).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4))) not (((156/345.43) or (156/345.44) or (156/345.45) or (156/345.46) or (156/345.47)).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4)) not (((electrode cathode anode) and (rotat\$3 revolv\$3 revolution spin\$4)) and (puls\$5 modulat\$3 intermittent\$2)) and (156/345\$.ccls. 118/723\$.ccls.)) | USPAT | 2003/10/30 14:46 |
| - | 25 | ((((118/723e).CCLS.) and ((rotat\$3 revolv\$3 revolution spin\$4) same (speed rate))) not (((118/723e).CCLS.) and ((rotat\$3 revolv\$3 revolution spin\$4) with (speed rate)))) | USPAT | 2003/10/30 14:48 |

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|---|-------|---|--------------|------------------|
| - | 57 | (((((118/730).CCLS.) and (electrode cathode anode)) not (((118/723e).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4))) not (((156/345.43) or (156/345.44) or (156/345.45) or (156/345.46) or (156/345.47)).CCLS.) and (rotat\$3 revolv\$3 revolution spin\$4))) not (((electrode cathode anode) and (rotat\$3 revolv\$3 revolution spin\$4)) and (puls\$5 modulat\$3 intermittent\$2)) and (156/345\$.ccls. 118/723\$.ccls.)) and ((rotat\$3 revolv\$3 revolution spin\$4) with (speed rate)) ((118/723e).CCLS.) and ((ion with (implant\$5 plat\$5)) dop\$3) | USPAT | 2003/10/30 14:49 |
| - | 350 | ((118/723e).CCLS.) and ((ion with (implant\$5 plat\$5)) dop\$3)) | USPAT | 2003/10/30 14:57 |
| - | 155 | ((118/723e).CCLS.) and ((ion with (implant\$5 plat\$5)) dop\$3)) and (rotat\$3 revolv\$3 revolution spin\$4) | USPAT | 2003/10/30 15:02 |
| - | 3 | "59217330" | JPO; DERWENT | 2003/10/30 16:01 |
| - | 1 | "8227880" | JPO; DERWENT | 2003/10/30 16:01 |
| - | 2 | "07201822" | JPO; DERWENT | 2003/10/30 16:02 |
| - | 2 | "54058361" | JPO; DERWENT | 2003/10/30 16:03 |
| - | 3 | "2217399" | JPO; DERWENT | 2003/10/30 16:03 |
| - | 2 | "02217399" | JPO; DERWENT | 2003/10/30 16:05 |
| - | 3 | "57023227" | JPO; DERWENT | 2003/10/30 16:05 |
| - | 5 | (("6375860") or ("6443092") or ("5990016") or ("5997686") or ("4767641")).PN. | USPAT | 2003/10/30 16:05 |
| - | 2 | (("5904487") or ("4885074")).PN. | USPAT | 2003/10/30 16:06 |
| - | 220 | magnet with spoke | USPAT | 2003/10/30 16:43 |
| - | 4619 | 118/723\$.ccls. 156/345\$.ccls. | USPAT | 2003/10/30 16:43 |
| - | 4 | (magnet with spoke) and (118/723\$.ccls. 156/345\$.ccls.) | USPAT | 2003/10/30 16:43 |
| - | 14 | ((("5911832") or ("6182604") or ("6020592") or ("5354381") or ("6173673") or ("5997649") or ("6022446") or ("6196155") or ("6216632") or ("6048435") or ("5567243") or ("5759282") or ("4767641") or ("5904487")).PN. | USPAT | 2003/10/30 17:21 |
| - | 1 | ("6020592").PN. | DERWENT | 2003/10/30 17:22 |
| - | 1 | ("6020592").PN. | USPAT | 2003/10/30 17:22 |
| - | 13 | ("4135097" "4228358" "4234797" "4361762" "4421988" "4433247" "4463255" "4587433" "4595837" "4751393" "4786814" "5354381" "5825035").PN. | USPAT | 2003/10/30 17:22 |
| - | 2 | "01022027" | JPO; DERWENT | 2003/10/31 11:46 |
| - | 1480 | plasma with dop\$3 | JPO; DERWENT | 2003/10/31 11:02 |
| - | 55 | (plasma with dop\$3) and (rotat\$3 revolv\$3 spin\$4 revolution roll\$3) | JPO; DERWENT | 2003/10/31 11:03 |
| - | 43725 | ion with implant\$5 | JPO; DERWENT | 2003/10/31 11:03 |
| - | 1353 | (ion with implant\$5) and (rotat\$3 revolv\$3 spin\$4 revolution roll\$3) | JPO; DERWENT | 2003/10/31 11:07 |
| - | 65 | ((ion with implant\$5) and (rotat\$3 revolv\$3 spin\$4 revolution roll\$3)) and plasma | JPO; DERWENT | 2003/10/31 11:03 |
| - | 38 | ((ion with implant\$5) and (rotat\$3 revolv\$3 spin\$4 revolution roll\$3)) and pulse | JPO; DERWENT | 2003/10/31 11:03 |
| - | 39 | ((ion with implant\$5) and (rotat\$3 revolv\$3 spin\$4 revolution roll\$3)) and puls\$5 | JPO; DERWENT | 2003/10/31 11:07 |
| - | 323 | (ion with implant\$5) and (rotary) | JPO; DERWENT | 2003/10/31 11:07 |

| | 10 | ((ion with implant\$5) and (rotary)) and puls\$5 1 ("5102523").PN. | JPO; DERWENT USPAT; EPO; JPO | 2003/10/31 11:07 2003/10/31 11:49 |
|--|--------|---|---------------------------------|--------------------------------------|
| | 3 | "57023227" | JPO; DERWENT USPAT; EPO; JPO | 2003/10/31 12:48 2003/10/31 13:06 |
| | 1 | ("6020592").PN. | USPAT; EPO; JPO | 2003/10/31 13:06 |
| | 1 | ("5354381").PN. | USPAT; EPO; JPO | 2003/10/31 13:17 |
| | 0 | ((("5354381").PN.) and cylinder | USPAT; EPO; JPO | 2003/10/31 13:17 |
| | 1 | ((("5354381").PN.) and cylindrical | USPAT; EPO; JPO | 2003/10/31 13:16 |
| | 1 | ("6182604").PN. | USPAT; EPO; JPO | 2003/10/31 13:16 |
| | 1 | ((("6182604").PN.) and cylindrical | USPAT; EPO; JPO | 2003/10/31 13:18 |
| | 1 | ((("6182604").PN.) and cylinder | USPAT; EPO; JPO | 2003/10/31 13:18 |
| | 1 | ("5911832").PN. | USPAT; EPO; JPO | 2003/10/31 13:18 |
| | 0 | ((("5911832").PN.) and cylindrical | USPAT; EPO; JPO | 2003/10/31 13:18 |
| | 0 | ((("5911832").PN.) and cylinder | USPAT; EPO; JPO | 2003/10/31 15:20 |
| | 233283 | (chamber reactor vessel housing) with (cylinder cylindrical) | USPAT | 2003/10/31 15:21 |
| | 593 | ((chamber reactor vessel housing) with (cylinder cylindrical)) and 118/723e | USPAT | 2003/10/31 15:21 |
| | 60 | ((chamber reactor vessel housing) with (cylinder cylindrical)) and 156/345.43 | USPAT | 2003/10/31 16:29 |
| | 2 | plasma and dop\$3 and (hollow with (cathode anode electrode)) and magnet\$2 | JPO; DERWENT | 2003/10/31 16:33 |
| | 213 | plasma and dop\$3 and (hollow with (cathode anode electrode)) and magnet\$2 | USPAT | 2003/10/31 16:33 |
| | 66 | plasma and dop\$3 and ((hollow with (cathode anode electrode)) same magnet\$2) | USPAT | 2003/10/31 16:51 |
| | 126 | plasma and dop\$3 and (((cylindrical cylinder) with (cathode anode electrode)) same magnet\$2) | USPAT | 2003/10/31 16:52 |
| | 96 | (plasma and dop\$3 and (((cylindrical cylinder) with (cathode anode electrode)) same magnet\$2)) not (plasma and dop\$3 and ((hollow with (cathode anode electrode)) same magnet\$2)) | USPAT | 2003/10/31 17:33 |
| | 58 | (156/345.45).CCLS. | USPAT | 2003/10/31 17:34 |
| | 13 | ("4657619" "4657629" "4664938" "4891095" "4962727" "5045166" "5225740" "5284544" "5350454" "5359621" "5361016" "5387777" "5527394").PN. | USPAT | 2003/10/31 17:41 |
| | 1 | ("6182604").PN. | DERWENT | 2003/10/31 18:27 |
| | 1 | ("6182604").PN. | USPAT | 2003/10/31 18:28 |
| | 12 | ("4135097" "4595837" "4764394" "4786814" "5345145" "5354381" "5572038" "5654043" "5711812" "5911832" "5970907" "6050218").PN. | USPAT | 2003/10/31 18:28 |
| | 25 | crowell.xa. | USPAT; EPO; JPO | 2003/11/01 16:37 |
| | 6 | ((("5759282") or ("4443488") or ("6196155") or ("6022446") or ("5567243") or ("6048435"))).PN. | USPAT; EPO; JPO | 2003/11/01 16:38 |